Summary of Current Projects (see detail section for additional information)

Project Name	End Date	Outcome	Activities this quarter	Problems this quarter	Schedule changes / roadblocks	CT Maintenance interactions
Advanced Traffic Management System	9/30/07	Research and develop open-source advanced traffic management system hardware and software components.	Developed and drafted interim report for review of national developments related to Open-Source and ATMS. Submitted to review committee. Initiated software architecture development.	None		None. N/A
ARDVAC Vegetation Removal Tools	12/31/05	Develop and test tools for removal of vegetation with ARDVAC.	May 18 Final Meeting. Report submitted. Project complete.	None	None	Final Meeting with Technical Advisory Group
Automated Travel Diary	12/31/06	Deliver ten vehicular and ten personal GPS-Automated Travel Diary (GPS-ATD) Units.	Prototype design complete, moving to manufacture, assembly, and testing	Prototype development is behind schedule.	Received no-cost time extension to 12/31/2006	None. N/A
Bridge Height Sensor System	9/30/07	Deliver bridge clearance systems, software to generate clearance diagrams.	Hardware ruggedization and testing. Software revisions. Development of deployment hardware. Work on business case and documentation. Developed draft report material. Addressing issue with speed sensor.	Need to accelerate business case analysis.	Contracting mechanisms changed end date.	None.
Detection of Obstacles in Snow	9/30/07	Develop novel techniques for detection of obstacles buried in snow.	Continued design and development of hardware needed for snow characterization tests. Started documentation.	None.	Contracting mechanisms changed end date.	None.
GPS Guidance for Winter Maintenance Vehicles	9/30/07	Research, develop, and field test field-ready GPS-based guidance methods and systems for winter maintenance vehicles.	Continued develop of Mountain Pass Road Opening and Rotary Plow Guidance system. Site visit to Sonora Pass for high-accuracy survey of reference path.	None.	Contracting mechanisms changed end date.	Met with operators on May 23, 24.
Labor Intensive Manual Tasks	12/31/06	Research roadside operations to lessen worker injuries and increase efficiency.	Emphasizing comparison of alternatives to herbicide. Collecting additional information from Caltrans field operations.	None	None	May 18 Meeting with Technical Advisory group.
Laser Scanning	6/30/07	Produce standards and specifications for the use of laser scanning (stationary ground-based LIDAR) in projects for Caltrans and its contractors.	Completed literature and Caltrans reviews. Completed hardware test plan, and fabrication of test fixtures. Initial vendor test on 6/27/06. Continued software evaluation plan, and final report.	None	None	None. N/A
Mobile Information System for Snow Fighters	9/30/07	Develop and field test a mobile information system for snow fighter supervisors.	Enhanced general software system architecture. Developed and tested prototype software. Hardware design continued. Continued system testing and optimization. Continued system documentation.	None		None
Mobile Safety Barriers	9/30/07	Identify innovative new channelizing barriers and/or develop improved installation methods to improve worker and motorist safety in temporary highway work zones.	Literature and product review.	None	Delayed start due to overlap with Temp. Barrier Usage in Work Zones	Research presentation to Caltrans Design and Research groups on June 12.

Project Name	End Date	Outcome	Activities this quarter	Problems this quarter	Schedule changes / roadblocks	CT Maintenance interactions
Mountain Pass Road Opening	6/30/07	Deliver portable road opening hardware and software.	Continued to ruggedize hardware, enhance software. Visited test site at Sonora Pass for high-accuracy survey of reference path,	None	None	Met with operators on May 23, 24.
Raised Pavement Markers	6/30/07	Develop automated device for replacement of raised pavement markers.	The RPM conceptual design was presented to and approved by the Caltrans advisory committee May 31. The design team is in the process of developing detailed designs for a demonstration RPM placement device.	None	None	RPM conceptual design presentation to Div. Equipment, Maintenance and Research groups May 31
Roadside Inventory	6/30/07	Recommend products and practices, and develop the requirements for an inventory tracking and asset management tool.	Completed best practices survey for DOT and related contacts, awaiting approval to send. Developed prototype visualization and navigation interface for the Caltrans culvert database. Developed software architecture for visualization and navigation of infrastructure data.	None.	None.	Meeting with Office of Roadside Maintenance, May 18 regarding Culvert Condition Database
Temporary Barriers in Work Zones	9/30/06	Develop a toolbox of channelizing devices along with specific guidelines for their cost-effective and efficient deployment.	Developed toolbox, selection matrix & deflection calculator. Presented research work to Caltrans June 1 for review. Submitted final toolbox draft for Caltrans review June 22.	None	None	Presentation to Caltrans Design and Research groups June 12 and submitted report June 22.
Transfer Tank Longitudinal Crack Sealer	In progress	Develop a new generation high production longitudinal crack sealer for limited deployment to Caltrans Maintenance.	Submitted Sealzall proposal to replace applicator truck kettle and add hand sealing capabilities to existing TTLS. Purchased replacement Bearcat kettle. Conducted Sealzall presentation to Caltrans. Completed TTLS business case report.	Slow kettle heating problem preventing field deployment.	Requires Application truck sealant kettle replacement.	Presentation to Caltrans Maintenance, Equipment and research groups the submitted Sealzall proposal April 4.
Vehicle Allocation	12/31/06	Develop strategies for collecting vehicle utilization data and allocating vehicles. Develop organizational recommendations to implement the vehicle allocation model.	Study expanded to include DGS and all State agencies. Technical review completed. 27 out-of-state agencies surveyed, and most in-state agencies interviewed. Colloquium planned for Aug 8.	None	None	Frequent meetings with Equipment Division Chief.

Starting soon: Sealzall Machine upgrade to TTLS pavement crack sealer: field deployable high production longitudinal crack sealing system. New machine will include hand sealing option to seal in-lane cracks.

Not Active: Multi-stack Cone Placement and Retrieval Vehicle. Continued support under deployment.

Project Detail

Advanced Traffic Management System

Project Name	Research and Development of Open-Source Advanced Traffic Management System Hardware and Software Components
Start, duration, completion	10/05, 24 months, 9/30/07
Expected outcome	Research and develop open-source advanced traffic management system hardware and software components.
Benefits	Dramatically reduce lifecycle costs of ATMS ownership. Potential savings exceed several million dollars per year.
Activities this quarter	Developed and drafted interim report for review of national developments related to Open-Source and ATMS. Submitted to review committee. Initiated software architecture development.
Problems encountered, if any	None.
Schedule changes and roadblocks	In Q2-06, there was a shift in project management, which introduced some delays from our initial work-start order of 10/12/2005 until the new PM was introduced during our 11/30/05 meeting.. In Q3-06, developed MOU addressing clarification of tasks, updated schedule. In Q4-06, the new PM left the project (internal Caltrans reassignment).
Caltrans Maintenance interactions	None. Not applicable.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Fred Yazdan <Fred_Yazdan@dot.ca.gov>
	David Cordone David_Cordone@dot.ca.gov (now left, replacement is TBD)

ARDVAC Vegetation Removal Tools

Project Name	Development of a Telerobotic Vacuum Assisted System for Vegetation Collection and Removal
Start, duration, completion	1/1/ 02, 48 months, 12/31/05
Expected outcome	Develop two vegetation collection and removal tools based on ARDVAC design. Build prototype of tools for controlled lab testing and limited engineering field testing. Fabrication of a third tool, the tumbleweed remover was added to expected outcome.
Benefits	Enable the Debris Vacuum Vehicle to cut and remove vegetation as well as collect debris in hard to reach areas without setting work zones, without manual labor, and with increased safety and efficiency.
Activities this quarter	May 18 Final Meeting. Report submitted.
Project complete.	
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	Final Meeting with Technical Advisory Group.
AHMCT contact	Wil White wawhite@ucdavis.edu
Caltrans DRI contact	Arvern Lofton <Arvern_Lofton@dot.ca.gov>

Automated Travel Diary

Project Name	Development of Vehicular and Personal Universal Longitudinal Travel Diary Systems using GPS and New Technology
Start, duration, completion	1/26/2005, 24 months, 12/31/06. (with no-cost time extension)

Expected outcome	Deliver ten vehicular and ten personal GPS-Automated Travel Diary (GPS-ATD) Units.
Benefits	Minimize user burden during travel behavior surveys, while providing accurate, reliable, and spatially dense traveler behavior data at a significantly reduced cost. This will greatly enhance travel demand forecast modeling to support transportation demand management and land use planning.
Activities this quarter	Completed design of the prototype circuit board, hardware design, firmware design and implementation. Continued application programming. The GPS-ATD prototype is now in manufacture, assembly, and testing.
Problems encountered, if any	Prototype development is behind schedule. This has been discussed with project manager, and we have plans for the necessary testing and refinement cycle.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	None. Not applicable.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Leo Gallagher <Leo_Gallagher@dot.ca.gov>

Bridge Height Sensor System

Project Names	Deployment and Field-Testing of the Bridge Height Measurement System Enhancement and Field Evaluation of an Advanced Clearance Measurement System for Highway Structures, Including Generation of Clearance Diagrams (Bridge Clearance II)
Start, duration, completion	Start: 7/1/2005. Duration: one year for bridge deployment; 2.25 years for bridge clearance II. Completion: 6/30/2006 (deploy), 9/30/2007 (bridge clearance II)
Expected outcome	Deliver bridge clearance systems, software to generate clearance diagrams.
Benefit	Make collecting and updating vertical and horizontal clearance profiles faster, safer, and easier. Data will be collected from a vehicle traveling at highway speeds. Clearance profiles are used to support oversize permitting.
Activities this quarter	*For "Deployment and Field-Testing of the Bridge Height Measurement System":* Continued ruggedization of components, testing speed sensor, integrating computer and electronics, and deployment hardware. Developed draft report material. Developed format and plan for business case analysis. Began addressing issues with speed sensor. *For "Enhancement and Field Evaluation of an Advanced Clearance Measurement System":* Enhanced software, including better surface recognition and lane discernment. Significant work remains in enhancing processing/filtering and adding iso-surface extraction algorithms. Some software work remains in dealing with exception and error handling. Detailed Phase 2 development of Bridge Profile Generation software not yet initiated. Upgraded components selection and testing. Tested customized Acuity laser sensor. See also section above. Started documentation, which will be on-going throughout project.
Problems encountered, if any	Need to accelerate business case analysis. Coordinating with other Center personnel, as well as with Structures Maintenance on this task.
Schedule changes and roadblocks	There is concern with the artificial end date imposed due to the contracting mechanism. The proposed two-year project should end on September 30, 2007. Current end date is listed as 12/31/2006. For completion of the scope of work, this must be addressed in some manner, ideally soon.
Caltrans Maintenance interactions	None.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Arvern Lofton <Arvern_Lofton@dot.ca.gov>

Detection of Obstacles in Snow

Project Name	Evaluation of Current Technologies and Development of Novel Techniques for Detection of Obstacles Buried in Snow
Start, duration, completion	10/1/05, 24 months, 9/30/07
Expected outcome	Development of novel techniques for detection of obstacles buried in snow.
Benefits	Reduce rotary plow breakdowns caused by objects buried in snow and minimize guardrail repair costs by allowing operators to maintain a safe distance from the guardrail. This will improve the safety and efficiency of snow removal operations.
Activities this quarter	Continued theoretical research. Angle-of-arrival research and radar front-end development are in progress. Started documentation.
Problems encountered, if any	None.
Schedule changes and roadblocks	There is concern with the artificial end date imposed due to the contracting mechanism. The proposed two-year project should end on September 30, 2007. Current end date is listed as 12/31/2006. For completion of the scope of work, this must be addressed in some manner, ideally soon.
Caltrans Maintenance interactions	None.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Larry Baumeister <Larry_Baumeister@dot.ca.gov>

GPS Guidance for Winter Maintenance Vehicles

Project Name	Field-Ready GPS-Based Guidance Methods and Systems for Winter Maintenance Vehicles
Start, duration, completion	10/1/05, 24 months, 9/30/07
Expected outcome	Research, development, and field testing of field-ready GPS-based guidance methods and systems for winter maintenance vehicles.
Benefits	Improve operation of winter maintenance vehicles in low-visibility conditions which will improve system mobility, safety, operational efficiency, and maintenance of guardrails, all without any added infrastructure.
Activities this quarter	Literature survey nearly completed. Continued definition of system requirements. Worked on development of system, hardware, and software architectures. Visited Sonora Pass test site, performed high-accuracy survey updates for the reference path. Met with operators at test site. See also *Mountain Pass Road Opening*. Continued work on hardware and software for Mountain Pass Road Opening and GPS Rotary Plow Guidance systems. Continued system documentation.
Problems encountered, if any	None.
Schedule changes and roadblocks	There is concern with the artificial end date imposed due to the contracting mechanism. The proposed two-year project should end on September 30, 2007. Current end date is listed as 12/31/2006. For completion of the scope of work, this must be addressed in some manner, ideally soon.
Caltrans Maintenance interactions	Met with road opening operators at Sonora Pass, May 23, 24.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Larry Baumeister <Larry_Baumeister@dot.ca.gov>

Labor Intensive Manual Tasks

Project Name	Utilizing Alternative Methods to Perform Labor-Intensive Manual Tasks
Start, duration, completion	1/1/05, 2 years, 12/31/06

Expected outcome	Research the roadside landscape maintenance work environment to identify cost-effective deployable improvements to methods, equipment, and processes that will lessen worker injuries, increase worker effectiveness and support Caltrans goals of safety and stewardship.
Benefits	Reduce use of herbicides and hand tools to clear vegetation on fire and mow strip, around posts and guardrails, and on pavement.
Expected completion date	Dec 31, 2006
Activities this quarter	Emphasizing comparison of alternatives to herbicide. Collecting additional information from Caltrans field operations.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	May 18 Meeting with Technical Advisory group.
AHMCT contact	Wil White <wawhite@ucdavis.edu>
Caltrans DRI contact	Bob Meline <Bob_Meline@dot.ca.gov>

Laser Scanning

Project Name	Creating Standards and Specifications for the Use of Laser Scanning in Caltrans Projects
Start, duration, completion	1/1//06, 18 months, 6/30/07
Expected outcome	Produce standards and specifications for the use of laser scanning (stationary ground-based LIDAR) in projects for Caltrans and its contractors.
Benefits	Enable large-scale deployment of 3D scanning into survey operations, improving efficiency and safety. 3D as-built models will enhance highway design, construction, and maintenance.
Activities this quarter	Literature and standards review — Completed Study Caltrans methods and equipment — Completed. Develop 3D laser scanner hardware test plan — Completed. Develop 3D laser scanner hardware and software test plan — Continued. Executed first of five laser scanner vendor hardware tests (Intelisum). Scheduled two other vendor tests (Optech and Leica), with two vendors remaining to be scheduled (Trimble, Riegl) Final report — Continued.
Problems encountered, if any	None.
Schedule changes and roadblocks	Contract was not in place for original project start date of 10/1/2005. With updated project start of 1/1/2006, the project schedule has been revised. New start date: 1/1/2006 (work-start issued 1/4/2006). New end date: 6/30/2007.
Caltrans Maintenance interactions	None.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Triet Bui <Triet_Bui@dot.ca.gov> Kevin Akin Kevin_Akin@dot.ca.gov (Caltrans Surveys)

Mobile Information System for Snow Fighters

Project Name	Development and Field-Operational Testing of a Mobile Real-time Information System for Snow Fighter Supervisors
Start, duration, completion	10/1/05, 24 months, 9/30/07
Expected outcome	Field-tested Information System.

Benefits	Provide snow fighter supervisors with up-to-date information, allowing them to be physically in the field to assist and communicate with the snow fighter crew. This will lead to improved resource allocation, enhanced efficiency, and superior responsiveness of snow removal equipment and crews, thus lowering winter operational costs.
Activities this quarter	Enhanced general software system architecture. Developed and tested prototype software. Hardware system architecture is being developed. Hardware design continued. Completed data collection client software, KML server software, data synch software, MySQL Database interface software, and web services software. Continued software functional and performance testing. Software modifications made based on the test results. System documentation continued.
Problems encountered, if any	None.
Schedule changes and roadblocks	There is concern with the artificial end date imposed due to the contracting mechanism. The proposed two-year project should end on September 30, 2007. Current end date is listed as 12/31/2006. For completion of the scope of work, this must be addressed in some manner, ideally soon.
Caltrans Maintenance interactions	None.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Ha Nguyen < Ha_Nguyen@dot.ca.gov>

Mobile Safety Barriers

Project Name	Development of New Kinds of Mobile Safety Barriers
Start, duration, completion	10/1/05, 24 months, 9/30/07
Expected outcome	A report documenting findings that will address recommendations and specifications for a new mobile barrier system including a detailed description of the identified system including its capabilities, a description of a proposed path to implementation, and basic system specifications.
Benefits	Provide urgently-needed, additional methods to protect workers in highway work zones and to avoid ancillary injuries to the traveling public. New mobile barrier systems will be aimed towards controlling errant vehicles while minimizing the extent of damage and injuries.
Activities this quarter	The literature and product review of existing temporary barrier usage in work zones was completed and presented to a Caltrans advisory committee on 6/12/06. Since this is a parallel project to the "Temporary Barrier Usage in Work Zones," project, the start of any new research will be delayed in order to make more efficient use of resources.
Problems encountered, if any	None
Schedule changes and roadblocks	Start of project delayed to maximize efficiency as per above item.
Caltrans Maintenance interactions	Research presentation to Caltrans Design and Research groups on June 12.
AHMCT contact	Steven Velinsky <savelinsky@ucdavis.edu>
Caltrans DRI contact	Fred Yazdan <Fred_Yazdan@dot.ca.gov>

Mountain Pass Road Opening System

Project Name	Development and Field-Testing of a GPS-Based Mountain Pass Road Opening Driver Assistance System
Start, duration, completion	5/1/2005, 26 months, 6/30/07
Expected outcome	Deliver portable road opening hardware and software

Benefits	Provide plow operators with a visual display that will help them find mountain pass roads covered by deep snow, and safely and efficiently open passes to the traveling public. This will improve road availability for the public and improve safety and efficiency for Caltrans.
Activities this quarter	Hardware — Continued to enhance / ruggedize portable, field-installable pass opening hardware. Ruggedization of the road opening hardware design and hardware enhancements continues. Enhancement of field installation process and related design continues. GPS-based compass tested, qualified, and incorporated into the system design. Software — Minor software revisions based on hardware updates, but software is essentially complete pending further field test results. Other —Continued working with Office of Land Surveys to develop methods and technologies to provide high-accuracy base maps for GPS-based lateral guidance. Documentation on-going throughout project.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	Met with road opening operators at Sonora Pass, May 23, 24.
AHMCT contact	Ty Lasky <talasky@ucdavis.edu>
Caltrans DRI contact	Larry Baumeister <Larry_Baumeister@dot.ca.gov>

Multi-Stack Cone Placement and Retrieval Vehicle

Project Name	Integration and Testing of a Multi-Stack Automated Cone Machine
Start, duration, completion	1/ 19/00 4 years, project ended 6/31/04. Continued support under deployment.
Expected outcome	Continue development of automated cone machine and development of multistack machine for high capacity.
Benefits	Make commercially available an enhanced cone machine that meets expanded Caltrans needs for capacity and multi-purpose usage.
Activities this quarter	Supporting tech transfer to TrafTech. Completed final report.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	None.
AHMCT contact	Wil White wawhite@ucdavis.edu
Caltrans DRI contact	Arvern Lofton <Arvern_Lofton@dot.ca.gov>

Raised Pavement Marker Placement

Project Name	Development of an Automated Device for the Replacement of Raised Pavement Markers
Start, duration, completion	7/01/2005, 24 months, 6/30/07.
Expected outcome	Develop of an automated RPM placement machine for demonstration to Caltrans Maintenance.
Benefits	Automate the installation of raised pavement markers, which will dramatically improve mobility for the public and improve safety and productivity for Caltrans.
Activities this quarter	Completed RPM research study and presented findings to Caltrans. Caltrans adopted strategy for the next step of the project to develop detailed conceptual RPM placement machine designs and present them to Caltrans for additional input and approval.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	RPM conceptual design presentation to Caltrans Division of Equipment, Maintenance and Research representatives May 31.

AHMCT contact	Duane Bennett <dabennett@ucdavis.edu>
Caltrans DRI contact	Triet Bui <Triet_Bui@dot.ca.gov>

Roadside Inventory

Project Name	Inventory and Assessing Roadside Features Statewide
Start, duration, completion	7/1/05, 24 months, 6/30/07
Expected outcome	Recommend products and practices, and develop the requirements for an inventory tracking and asset management tool.
Benefits	Identify best inventory tracking practices around the country, and provide administrators with tools and requirements for inventory asset management.
Activities this quarter	Completed development of a detailed Roadside Inventory questionnaire on features inventoried, technology used, and methodology for collecting data. Awaiting review and authorization by DRI to distribute to DOT and related contacts. Completed product and literature review of commercially available systems for inventorying roadside features. Met with Office of Roadside Maintenance (May 18) for an overview of the Caltrans Culvert Condition Database developed by Manuel Morales and his team. Developed software architecture for visualization and navigation of infrastructure data, with specific application (initial prototype) for the Culvert Condition Database.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	Meeting with Office of Roadside Maintenance (Manuel Morales), May 18, for an overview of the Caltrans Culvert Condition Database.
AHMCT contact	Bahram Ravani <bravani@ucdavis.edu>
Caltrans DRI contact	Larry Baumeister <Larry_Baumeister@dot.ca.gov>

Temporary Barriers in Work Zones

Project Name	Temporary Barrier Usage in Work Zones
Start, duration, completion	10/1/05, 12 months, 9/30/06
Expected outcome	The final report will contain a detailed toolbox of channelizing devices along with specific guidelines for their cost-effective and efficient deployment.
Benefits	Create a toolbox that Caltrans designers can consult when designing safe highway work zones.
Activities this quarter	Completed the development of the “toolbox of channelizing devices” which specifies temporary barrier usage in work zones, selection matrix & deflection calculator. Final research findings were presented to a Caltrans advisory committee June 12. As requested by the committee, a sample tool box layout was submitted to Caltrans for review June 22.
Problems encountered, if any	None
Schedule changes and roadblocks	None
Caltrans Maintenance interactions	Presentation of toolbox to Caltrans Design and Research groups June 12. Draft example of final toolbox layout was submitted to Caltrans for review June 22.
AHMCT contact	Steven Velinsky <savelinsky@ucdavis.edu>
Caltrans DRI contact	Fred Yazdan <Fred_Yazdan@dot.ca.gov>

Transfer Tank Longitudinal Crack Sealer

Project Name	Sealzall Machine Upgrade to the TTLS (pavement crack sealer)
Start, duration, completion	Starting soon.
Expected outcome	The development of a field deployable high production longitudinal crack sealing system. Hand sealing capabilities will be added to enable the longitudinal only machine to also seal in-lane cracks.
Benefits	Automate the sealing of longitudinal highway cracks with hot applied sealants. This will dramatically improve public mobility and maintenance safety and productivity.
Activities this quarter	Submitted Sealzall proposal to replace applicator truck kettle and add hand sealing capabilities to existing TTLS on June 28. The replacement Bearcat kettle has been received.
Problems encountered, if any	None
Schedule changes and roadblocks	None
Caltrans Maintenance interactions	Submitted updated Sealzall proposal June 28.
AHMCT contact	Duane Bennett <dabennet@ucdavis.edu>
Caltrans DRI contact	Arvern Lofton <Arvern_Lofton@dot.ca.gov>

Vehicle Allocation

Project Name	Vehicle Allocation Study for Caltrans Division of Equipment
Start, duration, completion	2/1/06, 11 months, 12/31/06.
Expected outcome	Develop strategies for collecting vehicle utilization data and allocating vehicles. Develop organizational recommendations to implement the vehicle allocation model.
Benefits	Improve the allocation of vehicles, statewide, by recommending ways to get better data, apply nationwide best practices, and create policies and procedures that benefit Caltrans and the Department of General Services. This will help California State Agencies respond to new legislation mandating new budgetary practices, increased visibility of operations, and new standards for utilization.
Activities this quarter	Study expanded to include DGS and all State agencies. Technical review completed. 27 out-of-state agencies surveyed, and most in-state agencies interviewed. Colloquium planned for Aug 8.
Problems encountered, if any	None.
Schedule changes and roadblocks	None.
Caltrans Maintenance interactions	Numerous interactions with Division Chief of Maintenance.
AHMCT contact	Steven Velinsky <savelinsky@ucdavis.edu>
Caltrans DRI contact	Bob Meline <Bob_Meline@dot.ca.gov>